SEIT Technical Details

AF Rep: Elise Erikson

Navy Rep: Dave Pearson

Army Rep: Hunter Matthews

SOF Rep: Nyle Wilcocks

Mission Planning SEIC Industry Day

16 Dec 02

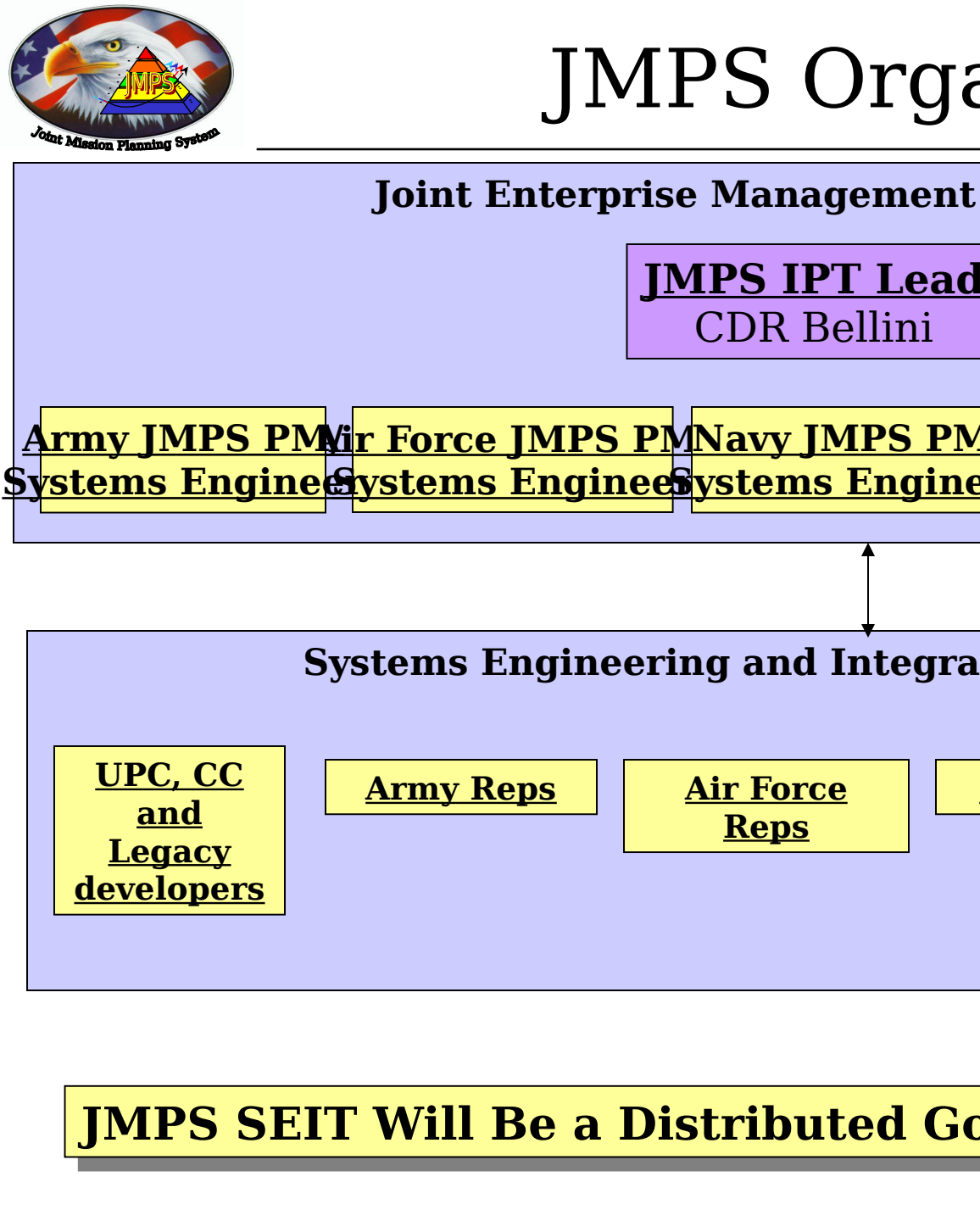
Overview

- Purpose and Overview
- Product Development Context
- Roles/Responsibilities
  - Government Program Management
  - Common Software, Framework, legacy system and UPC Developers
  - System Engineering Integration Team
    - Systems Engineering Integration Contractor (SEIC)
    - Systems Engineering Integration Government members
- Interactions
- Example Roles/Responsibilities interactions
- Challenges for industry

Systems Engineering Integration Team

- Purpose
  - The Mission Planning vision is to evolve Mission Planning into a set of mission planning tools and components for all of DoD.
  - The purpose of the SEIT is to ensure that these tools and components are architecturally sound, robust, controlled, easy to use, integrate well with the system, adhere to government standards, and adhere to JMPS business and technical rules.

JMPS Organization



JMPS SEIT Will Be a Distributed Gov't and Industry Team

SEIT Sphere of Influence

- Key Products/ Provided by other contractors
  - JMPS Framework Software
  - JMPS Common Software
  - JMPS UPC Software
  - Legacy systems
- Goals
  - Foster the migration of legacy systems
  - JMPS integration to the battle space
- Influence varies for each software type and by level of support required by each of the Services.
- Influence begins at early conceptualization phase for
  - New software to be integrated into JMPS
  - Updates to existing JMPS related products

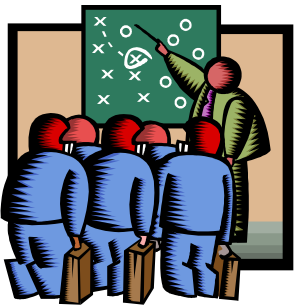
SEIC plays a role within the sphere

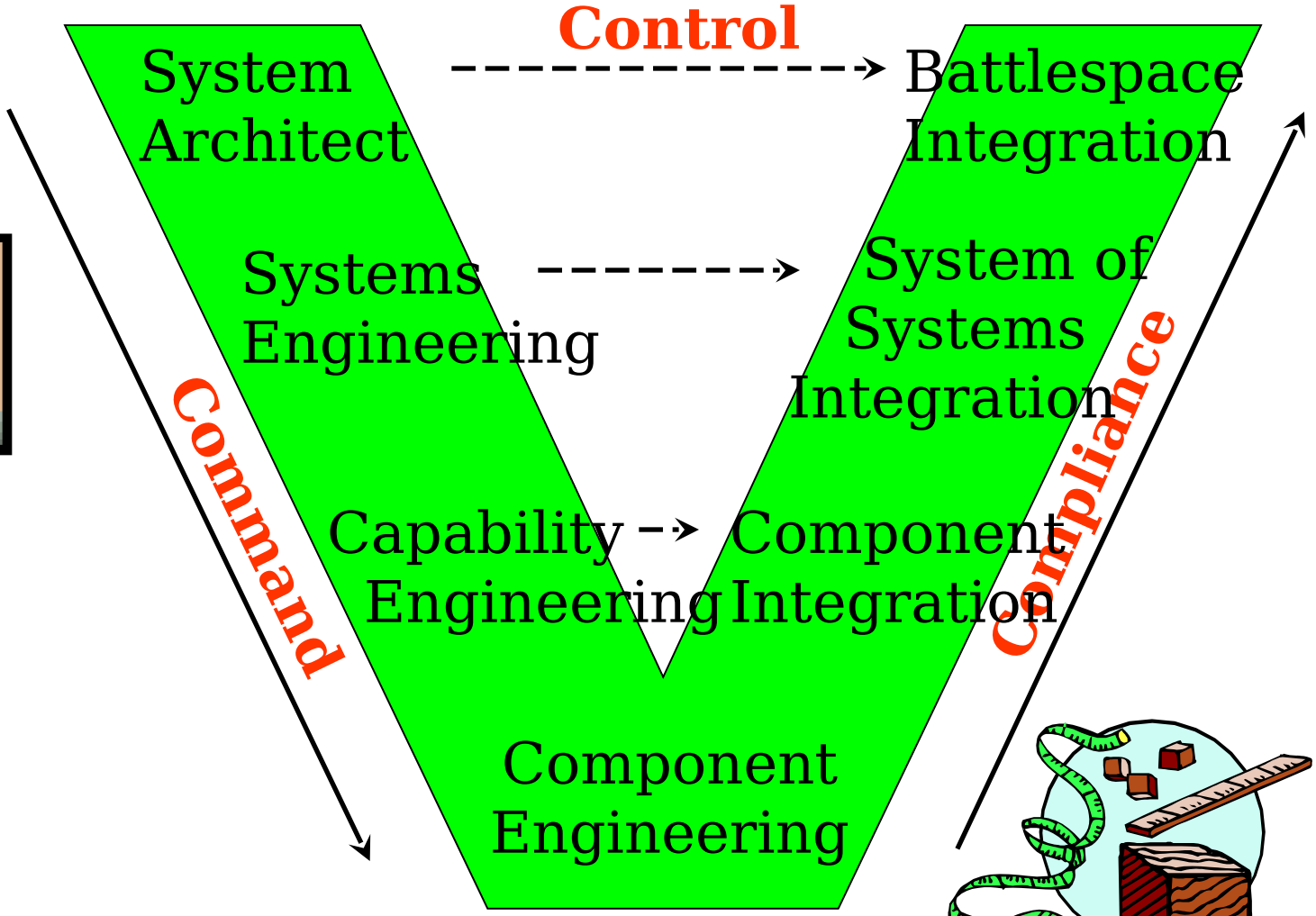
SEIT Tasks

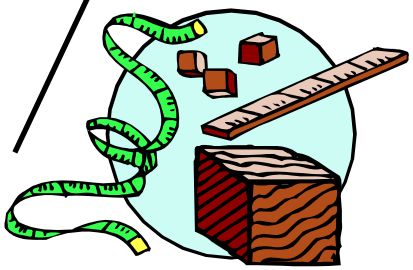
- Integration
- Requirements Analysis
- Architecture and Design Guidance
- System Evolution Management
- Understanding UPC Customer Needs
- CM/DM/QA Illities
- Cost, Schedule, Performance and Quality
- Risk Management
- Process Definition and Management
- User Support
- Engineering Management
- Government Program Management Support
- Developer Support
- Maintain Close Coordination with Warfighters

JMPS Product Development Context

Integration of Mission Planning Systems into the Battle space

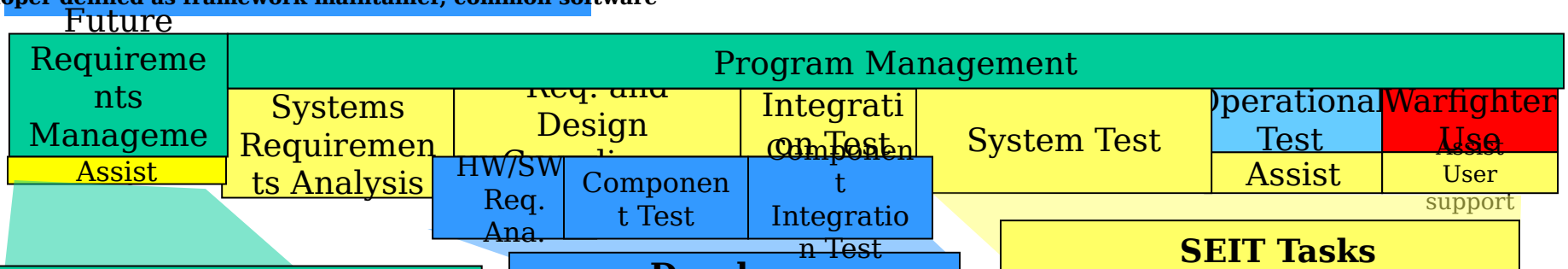






Typical Product Responsibilities

Developer defined as framework maintainer, common software



Government Program Mgnt

- Future Requirements Management
- Program Planning
- Controlling the Technical Effort
- Product Line Evolution Management
- Contract Management
- Program Funding
- Risk Management
- System Architectural Considerations
- Organizational development

Typical Products

Risk Management Process
Requirements Process

Developer

- HW/SW Requirements Analy
- HW/SW Design
- Design Component
- Design Capability
- Component Test
- Capability Testing
- Risk Management
- Technical Rules, Standards
- Metrics
- Training inputs

Typical Products

Software Requirements Specificat
Interface Design Documentation
Programmers Guide
Component test procedures
COE compliance Level 6
Security compliance & Metrics re

SEIT Tasks

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- Process Definition and Manageme
- User Support
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- Developer Support
- Maintain close coordination with Warfighters

Typical Products

Top-level Architecture, Integrated Master Schedule, Metric reports, Data

Government Program Management

Requirements Management Assist

Program Management

Key (SC) SEIT Contractor
(G) Government
(CC) Common Software/framework maintainer developers
(B) SC and/or G

Government Program Mgnt

- ***Future Requirements Management***
- ***Program Planning***
- ***Controlling the Technical Effort***
- Product Line Evolution Management
- Contract Management
- Program Funding
- Risk Management
- System Architectural Considerations
- Government schedule inputs
- Organizational development

Typical Products

Risk Management Process
Requirements Process

- **Future Requirements Management**
  1. Development/adherence to Requirements Process (G)
  2. Identify and manage future requirements in accordance with the requirements process. (B)
- **Program Planning / Scheduling**
  1. Provide direction to be given to contractors of the level of detail and incorporation of changes for schedule, i.e contractors deliverables (G)
  2. Establish operational need dates (G)
  3. Approve schedule (G)
  4. Provide external system schedules (G)
- **Controlling the Technical Effort**
  1. Approve system level use cases, interfaces, object model, build content and changes (G)
  2. Systems engineering team provides advice to the government regarding direction to be given to contractors concerning use case, interface, object model level of detail and incorporation of changes to all contractors (G)

Government Program Management

Requirements Management

Assist

Program Management

Key (SC) SEIT Contractor
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Government Program Mgnt

- Future Requirements Management
- Program Planning
- Controlling the Technical Effort
- ***Product Line Evolution Management***
- ***Contract Management***
- ***Program Funding***
- ***Risk Management***
- System Architectural Considerations
- Organizational development

Typical Products

Risk Management Process
Requirements Process

- **Product Line Evolution**

1. Systems Engineering provide inputs on roadmap milestones and options (G)
2. Systems Engineering provides advice regarding direction to be given to contractors concerning level of detail and incorporation of changes to all contractors regarding incorporation of new technology (G)

- **Contract Funding**

1. Provide contracts management (G) (See contract)

- **Program Funding**

1. Obtain/retain program funding (G)

- **Risk Management**

1. Manage risks in accordance with existing JMPS documented Risk Management Process (G)
2. Ensure compliance for risk process (G)

Government Program Management

Requirements Management Assist

Program Management

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Government Program Mgnt

- Future Requirements Management
- Program Planning
- Controlling the Technical Effort
- Product Line Evolution Management
- Contract Management
- Program Funding
- Risk Management
- ***System Architectural Considerations***
- ***Organizational development***

Typical Products

Risk Management Process

Requirements Process

- **System Architectural Considerations**

1. Approve use cases/requirements, interfaces, object model, what is contained in the builds. (B)
2. Review performance analysis (B)
3. Ensure JTA/COE compliance standards are met (B)
4. Provide guidance to software developers regarding top level system architecture. (B)
    1. Level of detail for use cases, interface, object model

- **Organizational development**

1. Develop Organization (B)
2. Attend Meetings, design reviews (B)

Framework Maintainers, CC Developer

HW/SW Req. Ana.	Component Test	Component Integration Test

Key (SC) SEIT Contractor
(G) Government
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(B) SC and/or G

Developer
- ***HW/SW Requirements Analysis***
- ***HW/SW Design***
- ***System Architecture***
- ***Design Component***
- ***Design Capability***
- Component Test
- Capability Testing
- Risk Management
- Technical Rules, Standards
- Metrics
- Training inputs

Typical Products
Software Requirements Specification
Interface Design Documentation
Programmers Guide
Component test procedures
COE compliance Level 6
Security compliance & Metrics report

- **HW/SW Requirements Analysis**
  1. Develop Use Cases (CC)
  2. Assist in HW, COTS evaluation, if required (CC)
  3. Provide inputs for User Manual & Programmer Guide (CC)
  4. Provide inputs for Interface development (IDD), and maintain control of I/F (CC)
- **HW/SW Design**
- **System Architecture**
  1. Implement JMPS IPT Approved system level use cases (CC)
  2. Develop interfaces, object model, build content and provide for changes (CC)
  3. Build/implement Object Model to top level system architecture as defined by the government (CC)
  4. Build components – level of componentization as defined from System Architecture (CC)
- **Design Component**

Framework Maintainers, CC Developer

HW/SW Req. Ana.	Component Test	Component Integration Test

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Developer
- HW/SW Requirements Analysis
- HW/SW Design
- System Architecture
- Design Component
- Design Capability
- ***Component Test***
- ***Capability Testing***
- ***Risk Management***
- ***Technical Rules, Standards***
- ***Metrics***
- ***Training inputs***

Typical Products
- Software Requirements Specification
- Interface Design Documentation
- Programmers Guide
- Component test procedures
- COE compliance Level 6
- Security compliance & Metrics report

- **Component test**
  1. Perform Component qualification test (CC)
  2. Develop/Comply with test plan, procedures, and provide results of testing (CC)
- **Capability testing**
  1. Review JMPE System test to avoid duplication (CC)
  2. Conduct requirements test of component (CC)
  3. Conduct certification test (COE, Security) (CC)
- **Risk Management**
  1. Manage risks in accordance with existing JMPS documented Risk Management Process (CC)
  2. Execute Risk Management (CC)
- **Comply with JMPS Business and Technical Rules, Standards (CC)**
- **Metrics input**
  1. Comply with SEIT Metrics plan (CC) (Metrics CDRL)
- **Training**
  1. Provide training inputs for instruction/manuals

Integration Illustration

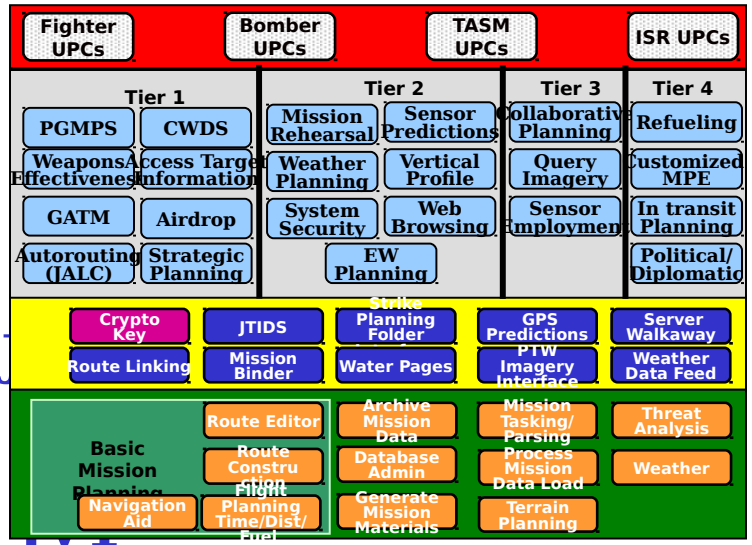
Horizontal Integration

UPCs

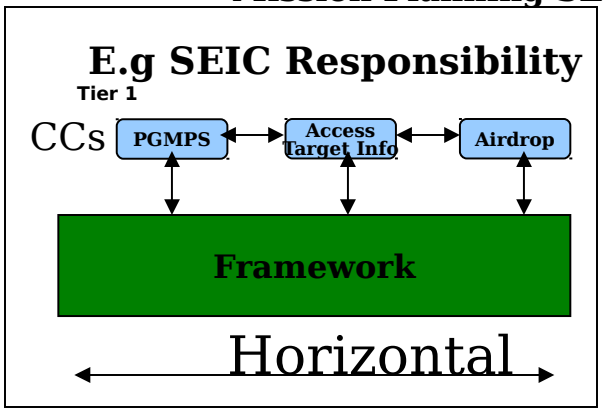
Future Common Capabilities

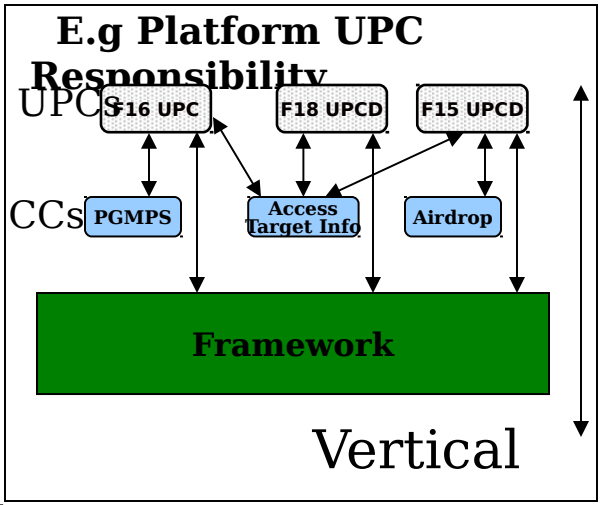
In development

Framework/ Flight Planning



Vertical Integration





- Horizontal (CC to CC) integration
- Vertical (Framework to CCs to Platform UPC) integration

SEIT Tasks

Systems Requirements Analysis	Req. and Design Compliance	Integration Test	System Test	Operational Test	Warfighter Use
				Assist	Assist User Support

Mission Planning SEI

Key (SC) SEIT Contractor
(G) Government
(CC) Common Software/framework maintainer developers
(B) SC and/or G

SEIT Tasks
- ***Integration***
- Requirements Analysis
- Architecture and Design Guidance
- System Evolution Management
- Understanding UPC Customer Needs
- CM DM QA Ilities
- Cost, Schedule, Performance, Quality
- Risk Management
- Process Definition and Management
- User Support
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- Developer Support
- Maintain Close Coordination with Warfighters

Typical Products

Top-level Architecture, Integrated Master Schedule, Metrics reports, Data Model, CM Plan

- **Integration**

1. Perform Vertical and horizontal integration of common software (B)
2. Provide integration support for UPC, as required (B)
3. Provide UPC compatibility testing (B)
4. Coordinate between common software developers to ensure compatibility (B)
5. Establish and ensure adherence to design standards (B)
6. Ensure compliance with business and technical rules (B)
7. Provide integration support for User Developed Apps (B)
8. Ensure development of and maintain C4ISP architecture data views, in accordance with C4ISP Framework (B)
9. System Verification and Validation
   1. Support Government DT/OT for

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Mission Planning SEI

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(CSF) Common Software/framework maintainer developers
(B) Both

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- ***Integration***
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Typical Products

Top-level Architecture, Integrated Master Schedule, Metrics reports, Data Model, CM Plan

- **Integration (continued)**

10. Perform Security Certification/Accreditation (B)
11. Provide Public Interface control (B)
12. Integrate and test JMPS Framework and common software (B)
13. Integration of additional flight planning software per government request. (B)
14. Assist other developers in asynchronous testing (B)
15. Support compatibility testing among UPCs (B)

- **Requirements Analysis**

1. Manage and review JMPE System requirements (B)
2. Develop JMPE System requirements, ie. ISRT inter-service requirements team (G)
3. Manage high-level Use Case data base and traceability to system requirements and system tests (B)
4. Manage operational Use Case data base and

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Typical Products

Top-level Architecture, Integrated Master Schedule, Metric reports, Data Model, CM Plan

- **Requirements Analysis (continued)**

1. Support the software developers regarding compliance with the top level system architecture. (B)
   1. Level of detail for use cases, interface, object model (B)
2. Ensure all interface/requirements disconnects are resolved (B)

- **Architecture and Design Guidance**

1. Ensure system to systems compliance (I.e C4ISP)(B)
2. Develop/maintain top level architecture, identify Interdependencies between CC and Framework components, and data modeling (B)
3. Provide design guidance in accordance with operational, system and technical architectures

- **System Evolution Management**

1. Build roadmap with milestones (B)

SEIT Tasks

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Typical Products

Top-level Architecture, Integrated Master Schedule, Metric reports, Data Model, CM Plan

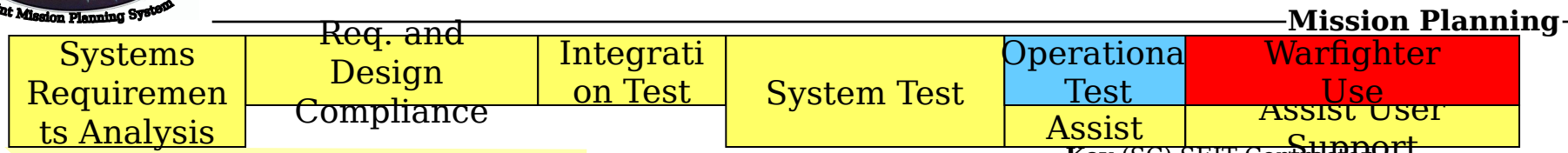
System Evolution Management

1. Manage COTS, Software, Hardware
   a. Evaluate COTS , Software and Hardware upgrades and provide recommendations, anticipate evaluation once a year (B)
   b. Purchase upgrade (G)
   c. Recommend COTS product integration into next maintenance release (B)
   d. Provide COTS, Hardware, and Software upgrades, if required (B)
   e. Manage licenses, if required (B)

Understanding UPC Customer needs

1. Attend design reviews, TIMs, UPC events, working groups (I.e COE) etc.., per govt request (B)
   1. ~63 (AF/Navy/Army) UPCs (potential for fewer meetings, since a contractor may build more than one UPC) over 7-10 yrs
   2. ~40 Common Capabilities (many components may be reviewed at once since there is only a few contractors developing the CC software).

SEIT Tasks



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Typical Products

Top-level Architecture, Integrated Master Schedule, Metric reports, Data Model, CM Plan

- **Understanding UPC Customer needs**

1. Participate in Working Group Support (I.e developer, COE, etc..) (B)

- **CM DM QA illities**

1. Maintain comprehensive knowledge repository (B)
2. Manage Master Software Configuration, (source code, docs, etc..) including management of multiple baselines, captured in CM Plan (B)
3. Provide Hardware System configuration management (as installed) (G)
4. Control, distribute and archive all versions (framework, Common Components and service specified tasks for UPCs) (G-Navy, B-AF, Army)
5. Build and test integration test scripts (B)
6. Build and test developer install scripts (SC)
7. Maintain integrated programmers guide, Interface Control Documents, certifications

SEIT Tasks

Systems Requirements Analysis	Req. and Design Compliance	Integration Test	System Test	Operational Test	Warfighter Use
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Mission Planning SEI

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Typical Products

Top-level Architecture, Integrated Master Schedule, Metric reports, Data Model, CM Plan

- **Cost, Schedule, Performance, Quality**

1. Development of Integrated Master Schedule (B)
2. Tracking of costs (G)
3. Provide Performance assessment and identification of bottlenecks (B)

- **Risk Management**

1. Manage risks by extending existing JMPS documented Risk Management Process (B)

- **Process Definition and Management**

1. Define and manage CM Process (B)
2. Define Multiple Baseline Processes (B)
3. Define and manage CDRL process (G)
4. Define and manage Risk Management Process (G)
5. Define and manage Metrics Process (B)
6. Define and manage Problem Reporting Process (B)

SEIT Tasks

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Mission Planning SEI

Support

Key (SC) SEIT Contractor
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Typical Products

Top-level Architecture, Integrated Master Schedule, Metric reports, Data Model, CM Plan

- **User support**

1. Provide Hot Line, Help Desk, Web site for users (G)
2. Manage operational releases, including tech data (
3. Build releasable configurations for field (G)
4. Provide release notifications to the field (G)
5. Distribute releases (Web, CD) for field operations (
6. Assist in network installations for field operations (
7. Integrate GFI and UPC training modules (G)
8. Publish and distribute training material (Web, CD)
9. Provide online learning courses (G)
10. Develop integrated users manual (G)
11. Provide onsite support to users (G)
12. Provide JMPE Support to Sustainment team (SC)

SEIT Tasks

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Typical Products

Top-level Architecture, Integrated Master Schedule, Metric reports, Data Model, CM Plan

User support (continued)

12. Provide system setup and checkout (G)
13. Perform system procurement(G)
14. Develop and execute User Training (G)
15. Provide Inventory control point (G) (including management of repair contracts)
16. Maintain user licenses (G)
17 Perform site activation (G)

Engineering Management

1. Investigate and recommend best approach for a Centralized Problem Reporting System, document in CM process. (B)
2. Provide Deficiency Reporting (DR) database (G)
3. Collect/Report Metrics, according to metrics plan
4. Ensure compliance with Business and Technical Rules (B)
5. Manage SEIT activities through a Project Schedule (B)

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Mission Planning SEI

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- ***Developer Support***
- Maintain Close Coordination with Warfighters

Typical Products

Top-level Architecture, Integrated Master Schedule, Metric reports, Data Model, CM Plan

- **Government Program Man. Support**

1. Support of government program tasks (SC)

- **Developer Support**

1. Provide Developer Training, SDKs, Wizards (SC)
2. Provide Helpdesk, hotline (SC)
3. Maintain Website (SC)
4. Provide consulting guidance, and support (SC)

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- ***Maintain close coordination with Warfighters***

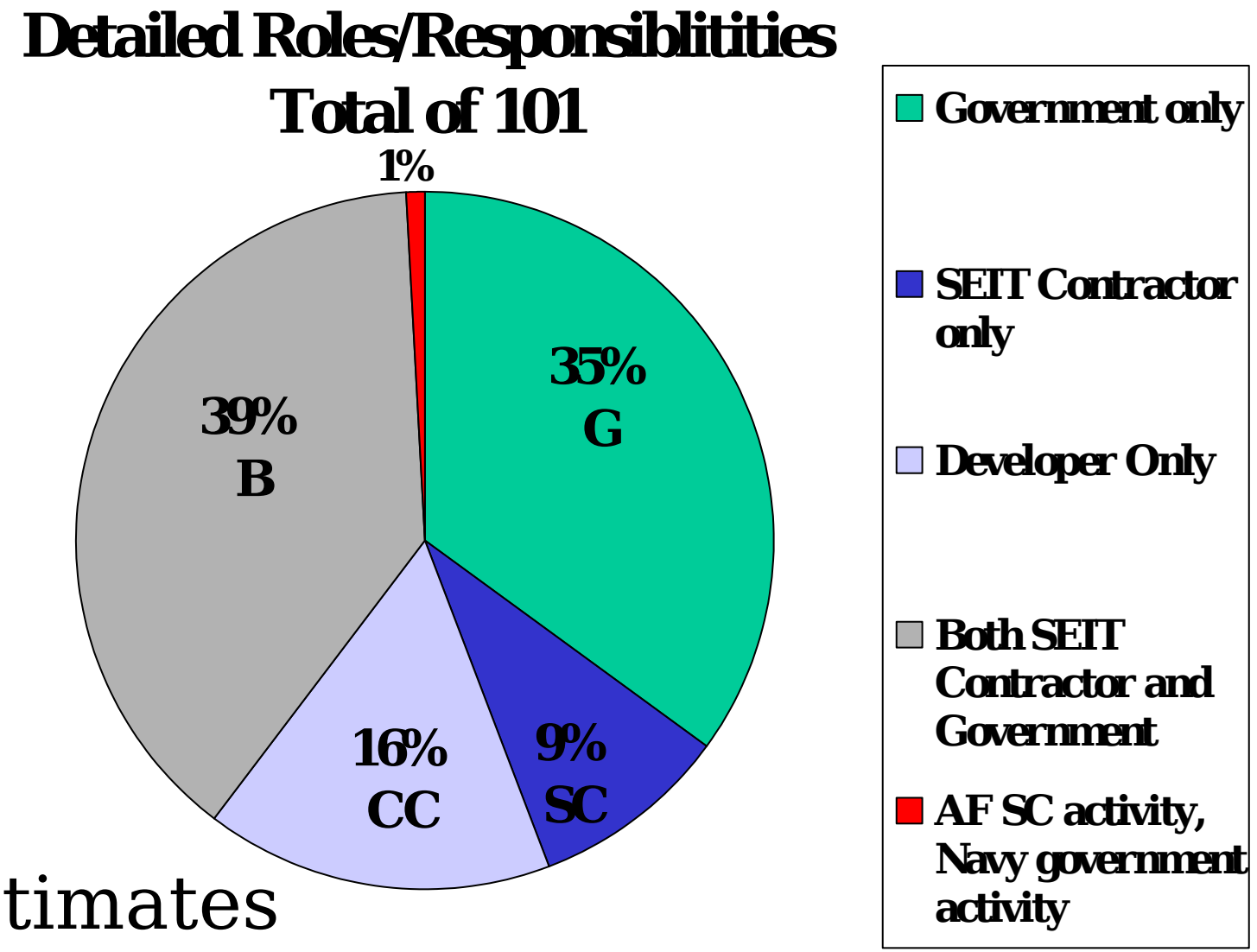
Typical Products

Top-level Architecture, Integrated Master Schedule, Metric reports, Data Model, CM Plan

- **Maintain close coordination with Warfighters**

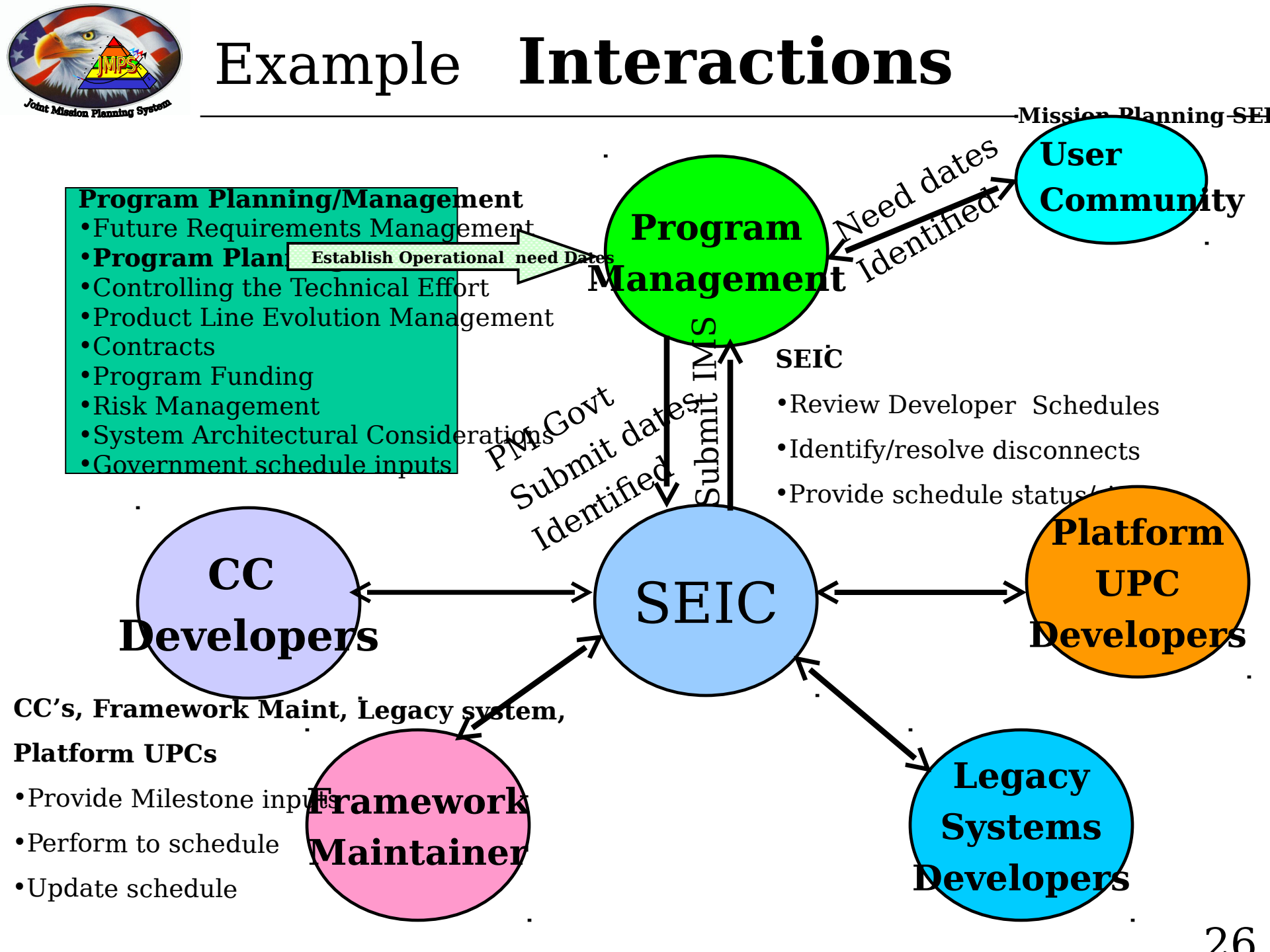
1. Define roles/responsibilities (B)
2. Assist with Market Mission Planning services to community (B)
3. Develop ways to support UPC development efforts (B)
4. Develop ways to support and market for foreign sales (G)
5. Participation in Mission Planning User Conferences, and OAG (B)
6. Participation in meetings with warfighters, showing demo's, prototypes, and use cases, per government request (B)
7. Participation in Joint Requirements Board (JRB), per government request. (B)
8. Support quarterly exercises, I.e red flags, JEFX,

Preliminary SEIT Tasks



- Estimates

Example **Interactions**



Contractor Template
Request your inputs

Refinement of
Roles/Responsibilities

Optional Homework Assignment

You fill in for each task

<Fill in Task Title>	Government	SEIC	Framework Maintainer (~1 contractor)	CC developers ~40 capabilities (contra actor may build multiple capabilities)	UPC developers AF ~37 UPCs Navy 15 UPCs Army 11 UPC in starting 2005	Legacy Systems (PFPS, MPS, TAMPS, AMPS) (~1 contractor for each legacy system)
<Fill in task>	<Fill in sub-bullet in appropriate column>		<Fill in support role for other organizations>			

Include number of estimated people per task

Request response no later than January 1

Typical Product Responsibilities

Developer defined as framework maintainer, common software

Future

Requirements Management	Program Management					
	Systems Requirements Analysis	Req. and Design	Integration Test	System Test	Operational Test	Warfighter Use
Assist		HW/SW Req. Ana. / Component Test	Component Integration Test		Assist	Assist User support

Example

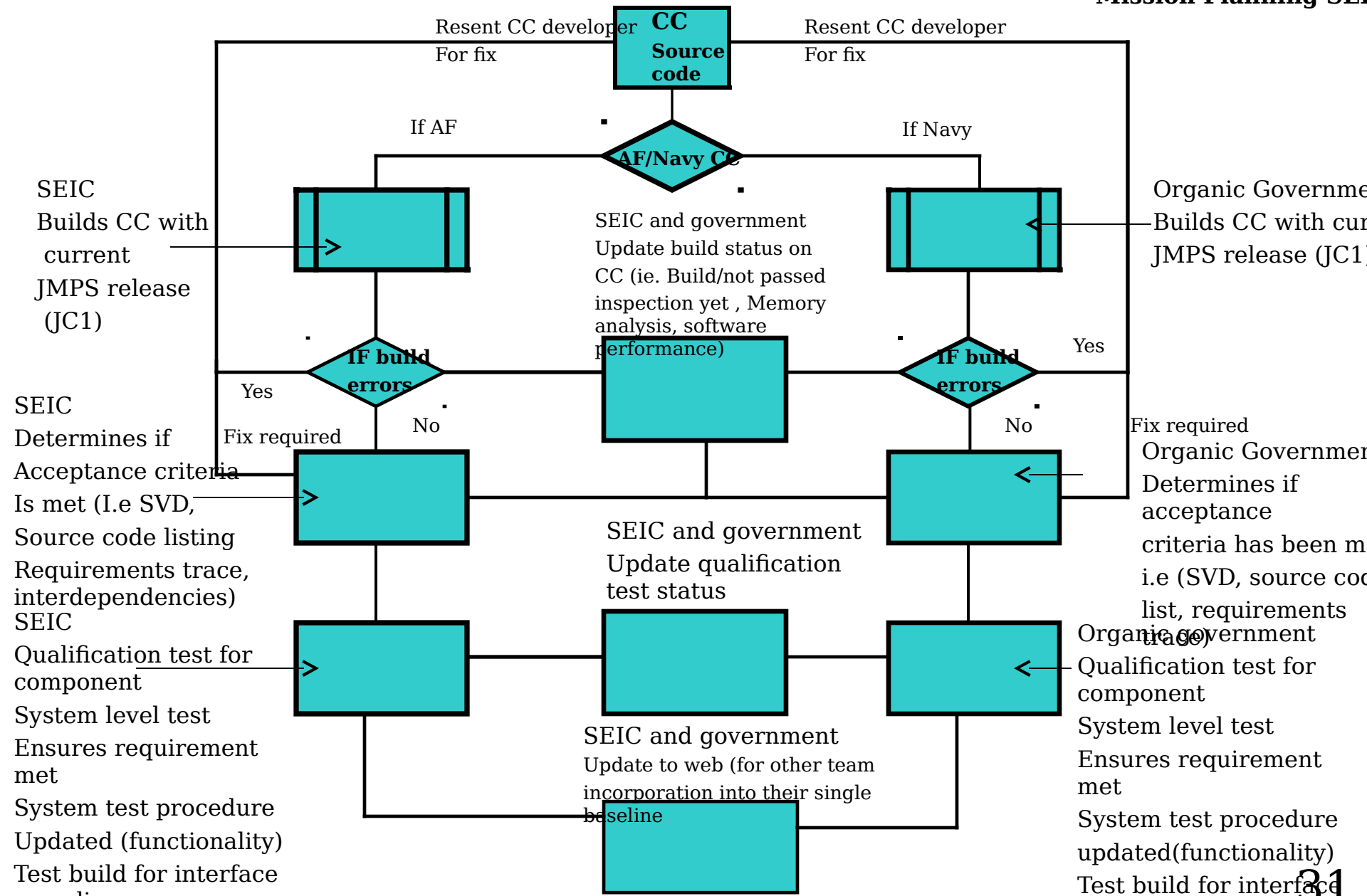
SEIT Tasks

- Integrati
- Requirements Analysis
- Architecture and Design Guidance
- System Evolution Management
- Understanding UPC Customer Needs
- ***CM DM QA Ilities***
  - **Repository**
  - **Master Configuration Manag (source code, docs, etc) including managing multiple -lines**
- Cost, Schedule, Performance, Quality
- Risk Management
- Process Definition and Management
- User Support
- Engineering Management
- Support Government Program Management
- Developer Support
- Maintain Close Coordination with Warfighters

SEIT Tasks

Example

Integration Process



Example CM/DM QA ilities

CM/DM QA ilties	Government	SEIC	Framework Maintainer (~1 contractor)	CC developers ~40 capabilities (contra actor may build multiple capabilities)	UPC developers AF ~37 UPCs Navy 15 UPCs Army 11 UPC in starting 2005	Legacy Systems (PFPS, MPS, TAMPS, AMPS) (~1 contractor for each legacy system)
CM	**Master configuration Manager(source code, docs, etc) including managing multiple baselines (B)** Service lead receives CC, and all framework maintenance updates	**Master configuration Manager (source code, docs, etc) Including managing multiple baselines (B)** AF CC received and all framework and Maintenance updates	Provides Release and any required updates to The Master Configuration Manager (G and contractor) Provide Interface test drivers	Provides release to Service Lead and any Required updates to the Master Configuration manager service lead (G and contractor)	Received Released versions with CC/Framework maintenance updates Provide interface test drivers	Follow current CM policies

Example CM/DM QA ilities

CM/DM QA ilties	Government	SEIC	Framework Maintainer (~1)	CC developers ~40 capabilities	UPC developers AF ~37 UPCs Navy 15 UPCs Army 11 UPC in starting 2005	Legacy Systems (PFPS, MPS, TAMPS, AMPS) (~1 per system)
CM (Continued)	If fixes required, send to CC developer Test builds for Interface Compliance Framework to CC to Platform UPCs Provides a build status to Team (not building) Government (service lead I.e navy)Determines if Acceptance criteria Is met (I.e SVD, Source code listing	If fixes required, send To CC developer Test builds for Interface Compliance Framework to CC to Platform UPCs Provides a build status to Team (not building) Determines if Acceptance criteria Is Met (I.e SVD, Source				

Example CM/DM QA ilities

CM/DM QA ilities	Government	SEIC	Framework Maintainer (~1)	CC developers ~40	UPC developers AF ~37 UPCs Navy 15 UPCs Army 11 UPC in starting 2005	Legacy Systems(PFPS, MPS, TAMPS,AMPS)~1 per system
CM (Continued)	Government provides a Qualification test for component Updates status of qualification test to website Government performs a System level test Ensures requirement met System test procedure Updated (functionality) Test build for	AF Contractor provides a Qualification test for component AF Contractor performs a System level test Ensures requirement met System test procedure Updated (functionality) Test build for interface compliance AF Contractor				

Challenge for Industry

- Feedback on roles/responsibilities
  - Complete template for SEIT tasks
  - Any missing tasks? ideas?
- Location of SEIC? Many sites need support, how?
  - To support a distributed environment